

Notice of Allowability

Application No.

09/390,154

Examiner

Anh Ly

Applicant(s)

MUKHERJEE, RAJAT

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/11/2006.
2. ☒ The allowed claim(s) is/are 1-8 & 10-20 (renumbered as 1-19).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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DETAILED ACTION

1. This Office Action is response to QAS's review filed on 04/11/2006.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Ed. Mutozuski on WED. 08/02/2006. ^{and Mr. John Rogitz} and with Mr. John Rogitz on Thursday, 8/17/06. ^{8/17/06 873}

The application has been amended as follows:

Claim 7:

7 (currently amended) A computer system for managing assets in a data repository such as at least one Web server or at least one file system, comprising:

computer readable code means for identifying the assets and for identifying reference pointers in the assets to other assets in the data repository;

computer readable code means for determining that a reference pointer is a broken reference pointer when the reference pointer refers to an asset not present in the data repository, such that a system manager can address the broken reference pointers, wherein the data repository includes at least one file system or at least two Web servers, and the system further comprises:

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computer readable code means for linking the assets to a database containing metadata representative of the assets and reference pointers, such that backups of the database automatically cause the associated assets to be backed up on the file system or web servers;

at least one of
wherein the code means ^{is} are stored on a computer-readable medium.

3/17/06
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Claim 12

12 (currently amended) A computer ~~program-product~~ readable medium including at least one program of instructions readable by a Web server to undertake method acts comprising:

crawling the web server to identify assets and hyperlinks therein:

sending metadata representative of the assets and hyperlinks to a database,

whereby when a user browser selects a hyperlink represented in the database, the user is never presented with a "file not found" message.

Claim 13:

In the first line of claim 13, "The computer program product of claim 12" replace with "The computer readable medium of claim 12"

Claim 14:

In the first line of claim 14, "The computer program product of claim 13" replace with "The computer readable medium of claim 13"

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Claim 15:

15 (currently amended) A computer ~~program product~~ readable medium including a program of instructions to undertake method acts comprising:

receiving, in a database, data representative of assets and hyperlinks from plural web server;

maintaining the database such that when a user browser selects a hyperlink represented in the database, the user is never presented with a "file not found" message.

Claim 16:

In the first line of claim 16, "The computer program product of claim 15" replace with "The computer readable medium of claim 15"

Claim 17:

In the first line of claim 17, "The computer program product of claim 15" replace with "The computer readable medium of claim 15"

Allowable Subject Matter

3. The present application has been thoroughly reviewed. Upon searching a variety of databases, the examiner respectfully submits that claims 1-8 and 10-20 are allowed in light of the applicants' argument and in light of the prior arts of made record.

4. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a computer-implemented method, a computer system and a computer product for identifying assets and hyperlinks whose data representative are stored in a database and for managing assets in a data repository such as a Web server or a file system. The invention ensures that when a user browser selects a hyperlink represented in the database, the user is not presented with a "File Not Found" message and a database containing metadata that represents the assets and reference pointers, such that backups of the database automatically cause the associated assets to be backed up.

Patent No.: 5,941,944 issued to Messerly teaches a database storing web pages and URLs (catalog 52, Figs. 4 & 7). The system has built the index or database from which it is used to repair broken links by identifying substantially identical Web pages or assets that may be returned as alternatives to a Web page associated with a broken link (col. 10, line 60 to col. 11, lines 25). Messerly fails to express " using the database, ensuring that when a user browser select a hyperlink presented in the database, the user is not presented with a "file not found" message." as recited in claim 1.

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Messerly teaches returning substantially situation as long as the browser is connected to the Internet (col. 11, line 15), but Messerly fails to teach the ensurance in claim 1.

Claim 12 and 15 are allowed by the similar reasonable as stated above.


5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Ly whose telephone number is (571) 272-4039 or via E-Mail: ANH.LY@USPTO.GOV (**Written Authorization being given by Applicant (MPEP 502.03 [R-2])) or fax to (571) 273-4039 (Examiner's personal Fax No.)**). The examiner can normally be reached on TUESDAY – THURSDAY from 8:30 AM – 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene, can be reached on (571) 272-4107 or **Primary Examiner: Jean Corrielus (571) 272-4032**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Any response to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or faxed to: **Central Fax Center: (571) 273-8300**

ANH LY ^h
AUG. 3rd, 2006


JOHN BREENE
SUPERVISORY PATENT EXAMINER
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